

GLADKOV, D., kand.tekhn.nauk, inzh.--mayor

Rocket against an airplane (as revealed by foreign press data).  
Starsh.-serzh. no.5:24 My '62. (MIRA 15:6)  
(United States--Rockets (Ordnance))

GLADYOV, D.L. inzhener-maor, kapt. 1940-1942

What affects the precision of rocket guidance? Av. 1940-45  
1940-1942 (MIRA 1-10)

(Projectiles, serial)

S/024/51/000/5-6/010/000  
E140/E355

16.8000

AUTHOR Gladkov, D.I. (Moscow)

TITLE Method of determining the differential equation from a given weighting function of a system

PERIODICAL Akademiya nauk SSSR. Izvestiya Otdel'noy tekhnicheskikh nauk. Energetika i avtomatika  
no. 6 1961 74 - 76

TEXT A dynamic system may be described fully by a differential equation, a transfer function or a weighting function. In order to synthesize the system it is necessary to derive from the weighting function the differential equation of the system. The note indicates the procedure for carrying this out by repeated division and differentiation. Two numerical examples are given.  
There are 5 Soviet-bloc references.

SUBMITTED June 3 1960

Card 1/1

20747

S/103/61/022/003/002/008  
B116/B209

16.9500 (1031, 1121, 1132, 1013)

AUTHOR: Gladkov, D. -- (Moscow)

TITLE: The assembly of linear automatic control systems

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 3, 1961, 306-313

TEXT: The present paper describes a study concerning the assembly of linear dynamic systems with constant and variable parameters. Structure and correction circuit parameters are determined and a technique of exactly mounting the integrating unit is given. The following problem is set: given - a linear dynamic system (Fig. 1a); required - structure and parameters of the correction circuits which render the dynamic properties of the given system equal to those of a certain optimum system. The dynamic properties of an optimum system may easily be expressed by weight functions. For linear systems expressed by differential equations

these functions are given by  $g_0(t, \tau) = \sum_{j=1}^m f_j(t) \psi_j(\tau)$  (1). The

correction circuits (Fig. 1b) are introduced and the following is written:

Card 1/10

20747

S/103/61/022/003/002/008  
B116/B209

The assembly of linear automatic ...

$$g_1(t, \tau) = \int_{\tau}^t g_{11}(\eta, \tau) g_{12}(t, \eta) d\eta. \quad \text{The differential equations}$$

expressing the operation of the system by means of the weight function

$$g_{11}(t, \tau) \text{ and } g_{12}(t, \tau) \text{ are written in the form of } \sum_{\rho=0}^m a_{\rho} p^{\rho} x_{\text{output}} = \\ = x_{\text{input}} \quad (2), \quad \sum_{\mu=0}^k b_{\mu} p^{\mu} x_{\text{output}} = x_{\text{input}} \quad (3), \quad p = d/dt; \quad \rho \text{ and } \mu$$

denote the order of the derivative;  $k$  and  $m$  determine the order of the differential equations.  $a_{\rho}$  and  $b_{\mu}$  are time functions in the general case.

The weight function  $g_k(t, \tau)$  of the correction circuits is determined.

$g_k^*(t, \tau)$  denotes the weight function of the direct circuit in the

structural scheme of the given automatic control system with the correction circuits introduced;  $g_{k1}(t, \tau)$  - the weight function of series connection

consisting of correction circuits and the dynamic system with the weight

Card 2/10

207h7

S/103/61/032/003/002/008  
B116/E209

The assembly of linear automatic ...

function  $\epsilon_{12}(t, \tau)$ . In the determination of  $\epsilon_k^*(t, \tau)$ , a Volterra type integral equation of the second kind is solved by successive approximation,

resulting in the equation  $\epsilon_k^*(t, \tau) = \sum_{i=1}^n c_i(t) d_i(\tau)$  (5).  $\epsilon_{k1}(t, \tau)$

is determined by using the method of reciprocal terms as established by

S. V. Mal'chikov:  $\epsilon_{k1}(t, \tau) = \int_{\tau}^t \overline{\epsilon_{11}}(\eta, \tau) \epsilon_k^*(t, \eta) d\eta$  (6). In the

same way, the weight function of the correction circuits is determined from the known  $\epsilon_{k1}(t, \tau)$  and  $\overline{\epsilon_{12}}(t, \tau)$ .  $\overline{\epsilon_{11}}(t, \tau)$  and  $\overline{\epsilon_{12}}(t, \tau)$  are the weight functions of systems that are reciprocal with respect to the dynamic systems expressed by Eqs. (2) and (3). With the assumption that in Eqs. (2) and (3),  $x_{\text{output}} = \delta(t - \tau)$ , one obtains

$$\overline{\epsilon_{11}}(t, \tau) = \sum_{q=0}^m a_q(t) \delta^{(q)}(t - \tau) \quad (8), \quad \overline{\epsilon_{12}}(t, \tau) =$$

Card 3/10

207117  
S/103/61/022/003/002/008  
B116/E209

The assembly of linear automatic ...

$= \sum_{\mu=0}^k b_{\mu}(t) \varepsilon^{(\mu)}(t - \tau) \quad (9).$  On the basis of Eqs. (5), (6), (8), and (9) the author obtains the equation for the weight function of the correction circuits:

$$\begin{aligned} g_k(t, \tau) = & \sum_{i=1}^n c_{oi}(t) d_{oi}(\tau) + \sum_{p=1}^m \sum_{i=1}^n \int_{\tau}^t \delta^{(p)}(\eta - \tau) a_p(\eta) c_{oi}(t) d_i(\eta) d\eta + \\ & + \sum_{i=1}^n \sum_{\mu=1}^k \int_{\tau}^t c_i(\xi) d_{oi}(\tau) b_{\mu}(t) \delta^{(\mu)}(t - \xi) d\xi + \\ & + \sum_{p=1}^m \sum_{i=1}^n \sum_{\mu=1}^k \int_{\tau}^t \int_{\tau}^{\xi} \delta^{(p)}(\eta - \tau) a_p(\eta) c_i(\xi) d_i(\eta) b_{\mu}(t) \delta^{(\mu)}(t - \xi) d\eta d\xi. \quad (11) \end{aligned} \quad (11),$$

where  $d_{oi}(\tau) = a_o(\tau) d_i(\tau)$  and  $c_{oi}(t) = b_o(t) c_i(t)$ . Eq. (11) shows that the correction circuit is a parallel connection of dynamic systems with weight functions of the following type:

Card 4/10

The assembly of linear automatic ...

20747  
S/103/61/022/003/002/006  
2116/3210

$$\left. \begin{aligned} g_{01}(t, \tau) &= c_{01}(t) d_{01}(\tau), \\ g_{02}(t, \tau) &= \int_{\tau}^t \delta^{(p)}(\eta - \tau) a_p(\eta) c_{01}(t) d_1(\eta) d\eta, \\ g_{03}(t, \tau) &= \int_{\tau}^t c_1(\xi) d_{01}(\tau) b_p(t) \delta^{(p)}(t - \xi) d\xi, \\ g_{04}(t, \tau) &= \int_{\tau}^t \int_{\tau}^{\xi} \delta^{(p)}(\eta - \tau) a_p(\eta) c_1(\xi) d_1(\eta) b_p(t) \delta^{(p)}(t - \xi) d\eta d\xi. \end{aligned} \right\} (11a)$$

The author shows, with the aid of Fig. 2, how to realize systems with such a kind of weight functions: The assembly diagram of a system with  $g_{01}(t, \tau)$  is shown in Fig. 2a, with  $g_{04}(t, \tau)$  in Fig. 2b, with  $g_{02}(t, \tau)$  in Fig. 2c, and with  $g_{03}(t, \tau)$  in Fig. 2d. In this manner, the correction circuit adapting the dynamic properties of the given system to an optimum, consists in a parallel connection of circuits with differentiating,

Card 5/40

7



20747

S/103/61/022/003/002/008

E116/3209

The assembly of linear automatic ...

integrating, and amplifier units with variable amplification factors. Fig. 3 shows another way of obtaining an assembly scheme for the correction circuit, taking Eqs. (5), (8), and (9) into account. The integrating unit is very difficult to verify. The author presents a method in which the integrating unit is replaced by an inertial unit with variable parameters. The inertial unit with the time constant  $T$  has the weight

function  $g(t, \tau) = \frac{1}{T} e^{-\frac{t}{T}} e^{-\frac{\tau}{T}}$ . The assembly diagram of such a unit is shown in Fig. 4a. The integration unit illustrated in Fig. 4b is obtained when amplifier units with variable coefficients  $Te^{-t/T}$  and  $e^{t/T}$  are connected to input and output, respectively, of this unit. The assembly scheme of a system with the weight function  $g_{01}(t, \tau)$  is shown in Fig. 4c,

where  $f_1(t) = T_i d_{oi}(t) e^{-t/T_i}$ ,  $f_1(t) = c_{oi}(t) e^{t/T_i}$  (12). The way of verifying such a system is given in Fig. 5.  $R(t)$  is determined

Card 6/40

7

20747

The assembly of linear automatic ...

S/103/61/022/003/002/009  
3116/3169

from formula

$$R(t) = \frac{1}{d_{01}(t)} e^{\int_0^t c_{01}(\tau) d_{01}(\tau) d\tau} \quad (13)$$

(13)

and  $C(t)$  from formula

$$C(t) = \frac{1}{c_{01}(t)} e^{-\int_0^t c_{01}(\tau) d_{01}(\tau) d\tau} \quad (14)$$

(14).

There are 6 figures and 3 Soviet-bloc references.

X

DECLASSIFIED: April 20, 1960

Card 7/10  
7

S/G24/62/000/001/010/013  
E140/E435

16 9000 (4102, 4202)

AUTHORS: Gladkov, D.I., Mal'chikov, S.V. (Moscow)

TITLE: Method for the synthesis of nonstationary automatic control systems for given optimal weighting function

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika. no.1, 1962, 166-169

TEXT: The method proposed here avoids the necessity of solving Volterra integral equations of the second kind, if the input signal can be represented in the form

$$Z(t) = \sum_{i=1}^n U_i f_i(t) + X(t) \quad (1)$$

and the desired output signal in the form

$$Y(s) = \sum_{i=1}^n U_i \varphi_i(s) \quad (2)$$

Card 1/3

Method for the synthesis ...

'S/024/62/000/001/010/013  
E140/E435

where  $X(t)$  is white noise,  $U_i$  are random quantities and  $f_i(t)$ ,  $\varphi_i(t)$  are nonrandom functions. If the inverse network (Ref.5: S.V.Kal'chikov, *Avtomatika i telemekhanika*, v.XX, no.12, 1959) be denoted by a superscript minus sign, the essence of the method is given in Fig.1. Let 1, 2, 3, 4 in Fig.1a be known networks in an existing control, where  $k_1$ ,  $k_2$  are corrective networks to be found. Then it can be shown that the system as corrected will be given by Fig.1b. It should be noted that the sign of the feedback in the corrective network is opposite to that of the principal loop of the original system (Fig.1a). While this method gives a solution always in principle, the required inverse networks may be difficult to realize due to the presence of high-order derivatives. The approximate realization of such cases is not considered. The article concludes with an example. There are 6 figures.

SUBMITTED: June 3, 1960

Card 2/3

ACCESSION NR AM1021936

BOOK EXPLOITATION

S/

Pugachev, V. S.; Kazakov, I. YE.; Gladkov, D. I.; YEvlanov, L. G.;  
Mal'chikov, S. V.; Mishakov, A. F.; Sedov, V. D.; Sokolov, V. I.

Principles of automatic control (Osnovy avtomaticheskogo upravleniya), Moscow,  
Fizmatgiz, 1963, 646 p. illus., biblio., index. 15,000 copies printed.

TOPIC TAGS: automation, automatic control, linear control system, nonlinear  
control system

TABLE OF CONTENTS [abridged]:

Foreword - - 8

Ch. I. Basic concepts of the theory of automatic control - - 15

Ch. II. Characteristics of linear systems - - 34

Ch. III. Linear elements of automatic systems - - 71

Ch. IV. Structure and methods of determining the characteristics of linear  
systems - - 121

Ch. V. Discrete linear systems - - 170

Ch. VI. Stability and quality of linear systems - - 194

Ch. VII. Methods of studying the accuracy of linear systems - - 240

Card 1/2

ACCESSION NR AM4021936

Ch. VIII. Characteristics of nonlinear systems - - 284  
Ch. IX. Nonlinear elements of automatic systems - - 308  
Ch. X. Stability and autovibrations of nonlinear systems - - 373  
Ch. XI. Methods of studying the accuracy of nonlinear systems - - 427  
Ch. XII. Self-tuning systems - - 444  
Ch. XIII. Information transmission on transmission channels - - 466  
Ch. XIV. Statistical theory of optimal systems - - 484  
Ch. XV. Methods of determining optimal linear systems - - 530  
Ch. XVI. Determining optimal nonlinear systems - - 581  
Appendices - - 614  
Bibliography - - 635  
Subject index - - 639

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Card 2/2

~~GLADKOV, E.S.~~

Petroleum workers at the Exhibition of Achievements of the  
Soviet National Economy in the Tatar A.S.S.R. Neftianik 7  
no.12:13 D '62. (MIRA 16:6)

1. Starshiy inzh. po tekhnicheskoy informatsii Gosudarstvennogo  
tresta po nefteburovym rabotam Tatarskoy ASSR.  
(Kazan—Petroleum production)  
(Kazan—Exhibitions)





GLADKOV, G.

FA 66/491106

USSR/Radio - Thyratons  
Rectifiers

Aug 49

"Use of Thyratrons," G. Gladkov, 2½ pp

"Radio" No 8

Previous article in "Radio," No 7 discussed operating principles of thyratrons. Discusses their applications herein. Gives detailed technical description and waveforms for controlled rectifiers, saw-tooth generators, and inertialess relays.

66/491106

GLADKOV, G.A. (Kishinov)

Conditioned reflex method in successful therapy of post-  
encephalitic Gunn's syndrome. Zhur. nevr. i psikh. 63 no.9:  
1329-1332 '63. (MIRA 17:8)

SOV 89-5-5 15

AUTH: Mel'sandrov, A. P., Afrikantov, I. I., Brandaus, A. I., Gladkov, T. A., Gnesin, B. Ya., Neganov, V. I., Khlopkin, N. S.

TITLE: The Nuclear Ice-Breaker "Lenin" (Atomnyy ledokol "Lenin")

DATE: Atomnyy ledokol, 1978, Vol. 1, No. 1, pp. 25-276 (USSR)

ABSTRACT: The ice-breaker "Lenin" was put on the stocks in a Leningrad shipbuilding yard on August 25, 1956. The vessel was launched on December 5, 1957. At present she is being completed in a floating dock. The following data were published:

Operation period without refuelling	1 year
Maximum length	114 m
Maximum width	27.5 m
Shaft output	44 000 HP
Displacement	16 000 t
Top speed in deep and calm water and loaded to full capacity	19 kn (19)

Speed 19 kn (19)

Number of screws

Number of revolutions of screws at maximum speed:

1 knots

To: Nuclear reactor "Lenin"

SOV: 89-1-1-15

Central screw	184 revs.p.m.
Lateral screws	205 revs.p.m.
Average height of side of ship	16,1 m
Height	2,1 m
Total weight of reactor including shield	2,1 t
Specific power	68,1 H
Weight of shield	450 t
Total weight of all other mechanical parts of equipment	2,1 t
Total quantity of steam generated	260 t/h
Temperature of steam	260 °C
Steam pressure	18 atm
Steam generated by main turbogenerator	204 t/h
Steam output of auxiliary boiler	1,1 t/h
Capacity of auxiliary electrical plant	0,11 kW
Number of reactors	1
Diameter of active zone	1 m
Length of active zone	1,6 m
Isotopic enrichment	50,1 % $^{235}\text{U}$
Enrichment with $^{235}\text{U}$	1,1 %
Static forward thrust of screws	330 tons

30V/89-5-3-5/15

The Nuclear Ice-Breaker "Lenin"

Canning material

zirconium or  
stainless steel

Thermal power of the reactor

90 MW  
 $10^6$  kcal/m<sup>2</sup>/h

Maximum thermal load

248° C

Inlet temperature of water

325° C

Outlet temperature of water

diameter 2 m,

Reactor boiler

height 5m.

A number of circuit diagrams and photographs of the entire plant is given. Safety measures are such that the vessel cannot sink even in the case of major damage. The nuclear plant is protected in such a manner that in continuously manned compartments the radiation level does not exceed 0.1 - 0.3 of the maximum tolerable dose for an 8 - hour working day. All quantities of waste water drained off into the sea are below the permitted concentration. Cisterns with a holding capacity of 3, 10, and 25 m<sup>3</sup> are provided for the active water. There are 15 figures.

GLADKOV, G.A.

21(4)	PEACE I BOOK EXPLOITATION	50V/293
	International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva, 1958.	
	Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya ener- giya (Reports of Soviet Scientists; Nuclear Reactors and Nuclear Energy) Moscow, Atomizdat, 1959. 707 p. (Series: Itz Trudy, vol. 2) Kzeta slip inserted. 8,000 copies printed.	
	General Eds.: K.A. Dollezhall, Corresponding Member, USSR Academy of Sciences, A.S. Krasin, Doctor of Physical and Mathematical Sciences, A.I. Lysenko, Member, Ukrainian SSR Academy of Sciences, Corresponding Member, USSR Academy of Sciences, and V.S. Purlov, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyabyev; Tech. Ed.: Ye. I. Misi.	
	PURPOSE: This book is intended for scientists and engineers engaged in reactor design, as well as for professors and students of higher technical schools where reactor design is taught.	
	CONTENTS: This issue second volume of a six-volume collection on the peaceful use of atomic energy. The six volumes contain the reports pre- sented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 11, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experimental and theoretical work to improve them; and the third, which is predominantly theoretical, to problems of the reactor cycle and construction engineering. The molecular reactor physics editor of this volume. See 50V/291. For titles of all volumes of the set. References appear at the end of the articles.	
	Dollezhall, K.A., A.S. Krasin, V.A. Mikhalov, A.M. Orlov, Ye. Purlov, and V.I. Subbotin. Experience of Operating the First Atomic Power Plant in the USSR and the Plant's Work Under Boiling Conditions (Report No. 2183)	15
	Dollezhall, K.A., K. Krasin, P.I. Alekshankin, A.A. Gritsenko, M.V. Floritskiy, K.Ye. Litvinov, Ye. Misi, V.M. Pribludnyy, V.M. Shukhov, Ye. I. Misi, and V.I. Subbotin. A Diagram- matic Representation of the High-Pressure Steam Superheater in a Nuclear Reactor (Report No. 2139)	36
	Aleksandrov, A.P., I.I. Artyukhin, A.A. Brudnyy, A.I. Ryndak, G.M. Ushakov, Ye. Gziz, V.I. Misi, and V.S. Shilopkin. The Atomic Reactor "Leningrad" (Report No. 2140)	60
	Litvinov, M.V. and B.G. Polozhin. Radiation Safety System of the Atomic Icebreaker (Report No. 2518)	87
	Simostov, S.A. Water-water Power Reactors (VVER) in the USSR (Report No. 2184)	95
	Artyukhin, I.I., A.M. Glukhov, V.V. Goncharenko, A.I. Kuznetsov, and G.A. Kuznetsov. Heat-producing Elements for Water-water Reactors of Atomic Power Plants (Report No. 2190)	119
	Polozhin, B.G. and V.I. Subbotin. Cooling Water-water Reactors (Report No. 2144)	134
	Yevakov, V.S. and I.V. Ivanov. A Study of Unsteady Heat Trans- fer in Heat-producing Elements of Nuclear Reactors (Report No. 2470)	153
	Ivanovskiy, M.E., V.I. Subbotin, and P.A. Mubelov. High-speed Method of Measuring the Heat Transfer Coefficient in the Pipe (Report No. 2475)	166
	Subbotin, V.I., V.I. Subbotin, V.M. Porizhanskiy, and P. L. Litvinov. Heat Exchange During the Flow of Liquid Metal in the Pipes (Report No. 2210)	176
	Trashebnitskiy, G.R. Economics of Nuclear Fuel in Fast Power Re- actors (Report No. 2028)	188
	Belkin, Y.A., A.S. Krasin, K.S. Shilopkin, and O.V. Shvedov. Thermal Neutron Distribution Along the Radius of Cylindrical Rod-shaped Heat Producing Elements (Report No. 2034)	193

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

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~~CIA-RDP86-00513R0005~~

GLADKOV, G. A.; BRYNITSKIY, E. A.; NIKOLAYEV, Y. I.

"On the problem of providing nuclear safety of power reactors in the USSR."

report submitted for 3rd Intl Conf, Technical Uses of Atomic Energy, Moscow.  
31 Aug-7 Sep 66.

ERODER, Dmitriy Leonidovich, doktor fiz.-mat. nauk; POPOV,  
Konstantin Konstantinovich; RUBANOV, Stanislav  
Mikhaylovich; GLADKOV, G.A., kand. fiz.-mat. nauk,  
retsensent; VESELEIN, A.P., kand. fiz.-mat. nauk,  
retsensent; YEGOROV, Yu.A., kand. fiz.-mat. nauk,  
retsensent; POLOGIKH, S.G., kand. fiz.-mat. nauk, re  
retsensent; VLASOVA, Z.V., red.; CHISTYAKOVA, E.K.,  
tekhn. red.

[Biological shielding for ship reactors] Biologicheskaya  
zashchita sudovyykh reaktorov. Leningrad, Izd-vo "Sudo-  
stroenie," 1964. 410 p. (MIRA 17:4)



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OLPASH, G.G.; KUMINENKOV, B.S.

Voluntary economic Migration of the population of the USSR  
(MIRA 17.8)

GLADKOV, G. M.

Agriculture

Machine tractor stations seek a solution to the greatest problem in agriculture.  
Kolkh. proizv. 12 L. L., 19 .

Monthly List of Russian Acquisitions, Library of Congress, June 1951. In English.

1. GLADKOV, G. M.
2. USSR (600)
4. Afforestation
7. Increasing the role of the machine-tractor station in shelterbelt forestry in every way. Les i step' 5, no. 1, 1953.
9. Monthly List of Russian Accessions. Library of Congress. May 1954. Incl.

YEROPKIN, Vasilii Gavrilovich; GLADKOV, Gleb Mikhaylovich; FORER, Gans Lebrekhtovich; SEYDAKHMATOV, O., otv. red.; LEVITUS, B.I., red. izd-va; ANOKHINA, M.G., tekhn. red.

[Wages on the collective farms of Kirghizistan] Oplata truda v kolkhozakh Kirgizii. Frunze, Izd-vo Akad. nauk Kirgizskoi SSR, 1961. 214 p. (MIRA 15:9)  
(Kirghizistan—Collective farms—Income distribution)

ARABAYEV, E.I.; BABENKO, I.S.; GLADKOV, G.M.; KAZAKOV, I.G.;  
SEYDAKIMATOV, G.S.; SEMENNIK, V.K.; TABALAYEV, R.D.,  
kand. ekon. nauk, otv. red.

[Wage system on the collective beet farms of Kirghizistan;  
using the example of the "Krasnyi Oktiabr'" Collective  
Farm of Sokuluk District] Sistema oplaty truda v svedlo-  
seichchikh kolkhozakh Kirgizii; na primere kolhoza "Krasnyi  
oktiabr'" Sokulukского района. Franze, Izd-vo "Ilim," 1964.  
92 p. (MIRA 18:1)

PHASE I BOOK EXPLOITATION

SOV/1865

3(6)

Babenko, Yuriy Aleksandrovich, Grigoriy Stepanovich Gladkov, Grigoriy Afanas'yevich Klimenko, Vladimir Petrovich Naumchenko, and Aleksandr Ignat'yevich Khristich

Elektrifikatsiya Ukrayiny za roky Radyans'koy vlady (Electrification of the Ukraine During the Years of the Soviet Regime) Kiyev, Derzh. vyd.-vo tekhn. lit-ry URSR, 1958. 150 p. 3,000 copies printed.

Resp. Ed.: I.T. Shvetsya, Academician, UkrSSR Academy of Sciences; Ed.: M. Pysarenko; Tech. Ed.: Z. Vortman.

PURPOSE: The book is intended for the general reader.

COVERAGE: The authors discuss electrification of the national economy of the Ukraine during the prerevolutionary period and during the Soviet Five-Year Plans. Achievements of the Soviet regime are noted. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Card 1/3

Electrification of the Ukraine During (Cont.)

SOV/1865

Introduction	5
Development of Electrification Before 1941	
General information	19
Fuel resources	19
Hydroelectric power resources	20
	25
Development of Electric Power in the Ukrainian SSR During the Prewar Period	29
Power in the prerevolutionary period	29
Lenin plan GOELRO and electrification of the UkrSSR	31
Power during the reconstruction period (1921-1928)	37
Power during the First Five-Year Plan (1928-1932)	40
Power during the Second Five-Year Plan (1933-1937)	43
Power during the Third Five-Year Plan (1938-1941)	44
Development of Electrification From 1941 to 1957	49
Power in the Ukrainian SSR During the War and the Postwar Period	51
Power in the Republic during the Great Patriotic War (1941-1945)	51

Electrification of the Ukraine During (Cont.)

SOV/1865

Reconstruction and development of power facilities in the Republic during the Fourth Five-Year Plan (1946-1950)	56
Power during the Fifth Five-Year Plan (1951-1955)	60
Power during the Sixth Five-Year Plan (1956-1960)	63
Technical Progress in the Development of Power in the Ukrainian SSR	79
Improvements in power engineering	79
Principal research trends in the field of power engineering	105
Design and Construction of Electric Power Plants and Distribution Networks	109
Design of electric power plants and distribution networks	109
Construction of electric power plants and distribution networks	116
Electrification of the National Economy of the Ukrainian SSR	122
Electrification of industry	122
Electrification of agriculture	135
Electrification of railroad transportation	141
Electrification of dwellings	147

AVAILABLE: Library of Congress (TK 86.U5E35)

Card 3/3

JP/fal  
7-20-59



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BABENKO, Yuriy Aleksandrovich; GLADKOV, Grigoriy Stepanovich; KLIMENKO,  
Grigoriy Afanas'yevich; NAUMCHENKO, Vladimir Petrovich; KHRISTICH,  
Aleksandr Ignat'yevich; PISARENKO, M., red.; GUSAROV, K., tekhn.  
red.

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(Economic research)

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(Municipal services) (Socialist competition)

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GHALKOV, I. A.

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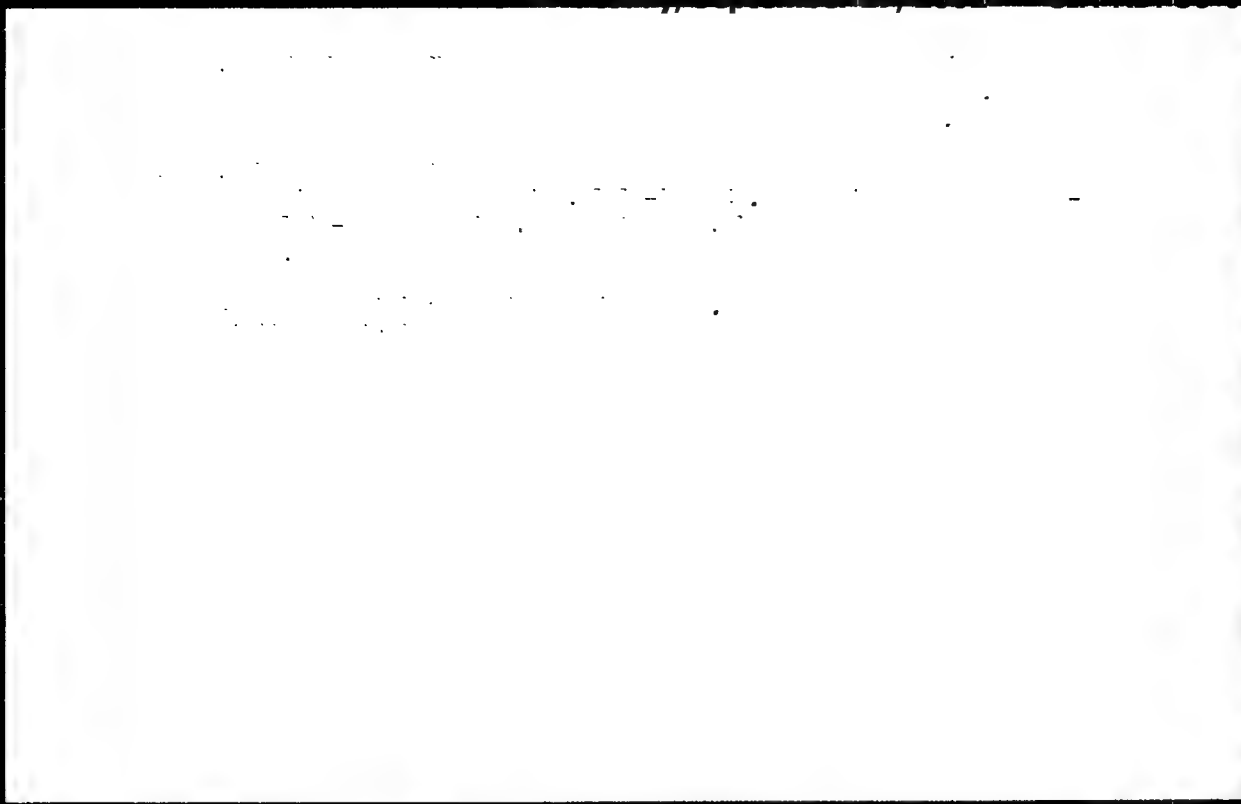
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KOVALEV, P.P.; GLADKOV, I.A., redaktor; MITROPANOVA, S., redaktor;  
PISKUNOV, V., redaktor; DANILINA, A., tekhnicheskij redaktor

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SAKSAGANSKIY, T.D.; SAMSONOV, L.M.; SMEKHOV, B.M.; SOKOLIKHIN, S.I.;  
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LUCHKINA, A.N., red.izd-va; SUSHKOVA, L.A., tekhn.red.

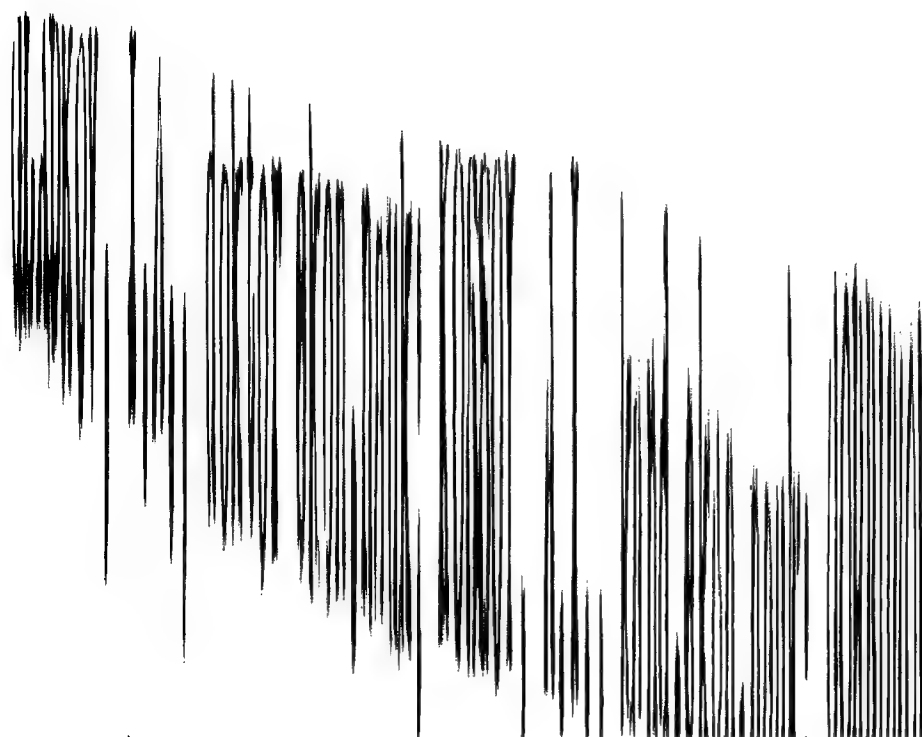
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DIKHTYAR, Grigoriy Abramovich. Prinimali uchastiye: TORBIN, V.I.; GUSEV, A.V.; GLADKOV, I.A., prof., doktor ekonom. nauk, otv. red.; LUCEKINA, A.N., red. izd-va; SHEVCHENKO, G.N., tekhn. red.

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GLADKOV, I.A., doktor ekon. nauk; KOZSOV, A.I., kand. ekon. nauk;  
VIDOTOV, S.S., nauchn. sotr.; SAMCYLOVA, I.D., nauchn. sotr.;  
GORJUNOV, E.F., kand. ekon. nauk; MAYEVSKIY, I.V., doktor  
ekon. nauk; CHEBOTAIIEV, V.A., kand. ekon. nauk; KAPUSHER,  
L.N., nauchn. sotr.; STROYEVA, Z.N., nauchn. sotr.; FOMINA,  
L.V., nauchn. sotr.; VOZOB'YEV, Yu.F., kand. ekon. nauk;  
KRAYEV, M.A., doktor ekon. nauk; KAPLINSKIY, Yo.M., kand.  
ekon. nauk; LAFINA, S.N., nauchn. sotr.; YAKOVTSSEVSKIY, V.N.,  
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G.A., doktor ekon. nauk [deceased]; PLOTNIKOV, K.N.;  
MALIKOVA, A.I., nauchn. sotr.; TOVMOSYAN, N.Ye., red.izd-va;  
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Stroyeva, Fomina, Kaplinskiy, Lapina). 3. Chlen-korrespondent  
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(Russia--Economic conditions)

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Visiting machinery designers in Rybinsk. Mashinostroitel'  
no.6:40-41 Je '63. (MIRA 16:7)

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GLADKOV, I.I.; GLADKOVA, V.I.; MNUSHKIN, L.B.

New archaeological finds in Western Kazakhstan. Vest. AN Kazakh. SSR  
11 no.4:88-94 Ap '55. (MLRA 8:8)  
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(Mangyshlak Peninsula--Geology, Stratigraphic)



BAZHANOV, V.S.: VOSKOBOYNIKOV, M.Ye.; GLADKOV, I.I.; MNUSHKIN, L.B.

Stratigraphic position of recently found remains of marine mammals on  
the Mangyshlak Peninsula. Mat. po ist. fauny i flory Kazakh. 2:17-27  
'58. (MIRA 11:7)

(Mangyshlak Peninsula--Paleontology, Stratigraphic)

GLADKOV, I.M.

Collimycin, an effective and cheap preparation. Veterinarika  
38 no.9:68-69 S '61. (MIRA 16:8)

1. Zaveduyushchiy Konstantinovskoy tekhnicheskoy veterinarno-  
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GLADKOV, I.T.

Gladkov, I.T. "Theory and estimate of gusher derricks operating at prime condition," Trudy Grozn. neft. in-ta, symposium 6, 1948, p. 25-63 - Bibliog: 26 items

SO: U-2898, Letopis Zhurnal'nykh Statey, No. 1, 1949

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CIA-RDP86-00513R0005

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38 no.9:68-69 S 161. (MIRA 16:8)

1. Zaveduyushchiy Konstantinovskoy nauchnoy veterinarno-  
bakteriologicheskoy laboratorii, Kostovskoy oblasti.

GLADKOV, I.T.

Gladkov, I.T. "Theory and estimate of gusher derricks operating at prime condition," Trudy Grozn, neft. in-ta, symposium 6, 1948. p. 25-63 - Bibliog: 26 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

GLADKOV, I. T.

Zadachi i Uprazhneniya Po kursu Eksploatatsiya Neftyanykh Mestorozhdeniy [Problems  
and Exercises on a Course of Operation of Petroleum Deposits] K. G. Orkin, P. K.  
Kluchinskiy, I. T. Gladkov. Moskva, Neftotekhnizdat, 1952.

330 p. Diagr., Tables.

"Literatura": p. 326-327.

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GLADKOV, I.T.

Analytical determination of dynamic bottom-hole pressures in  
free-flowing wells. Azerb.neft.khoz. 35 no.6:16-18 Je '56.

(MLRA 9:10)

(Petroleum engineering) (Oil wells)

AUTHOR: Gladkov, K., Engineer

S/029/60/000/03/015/026  
B008/B011

TITLE: The "Aeroship", a Flying Automobile

PERIODICAL: Tekhnika molodezhi, 1960, Nr 3, pp 14-15 (USSR)

TEXT: The author reports on various models of flying automobiles<sup>4</sup>. The first such vehicle designed by the young Engineer Gennadiy Turkin deceased, was demonstrated on May 16, 1954. A second and larger model was demonstrated by Turkin in the gym of the neftyanoy institut (Petroleum Institute) on May 25, 1955 before the teachers' staff and engineers. The third, largest model provided with a motorcycle engine was tested by Turkin in the open on September 19, 1955, when it glided 1 cm above the ground. The principle of this flying automobile is based on the production of a so-called air cushion underneath the vehicle. Projects in this direction are being worked out also in England, the USA, Switzerland, and Canada. The author reports on some of these models. Studies in this field, however, are still in the development stage. Furthermore, the question arises, as to where such a vehicle could be used more suitably, over land or over water. Designer Andreyevich Smolin from the Gor'kovskiy avtozavod (Gor'kiy Automobile Factory) is also working on the design of a flying automobile. His idea of such a vehicle differs from that of the other designers, since he wants to combine an overland car with a helicopter. His second idea is a car shown on the outside front cover, which is kept at any height by air columns. Such air columns are

Card 1/2



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GLADKOV, K., inzh.

Roll call of hypotheses. Tekh.mol. 29 no.3:32-36 '61.  
(MIRA 14:3)

(Continents)

GLADKOV, K., inzh.

From heat to current, a direct route. Tekh.mol. 29 no.4:22-23 Ap  
'61. (MIRA 14:5)  
(Thermoelectricity)

GLADKOV, K., inzh.

Gas and liquid amplifiers. Tekh.mol. 28 no.11:25 '60.  
(MIRA 13:12)  
(Pneumatic control)

GLADKOV, K., inzh.

Tektites are still a mystery. Tekh.mol. 29 no.8:39-40 '61.  
(MIRA 14:11)

(Tektite)

GLADKOV, Kirill Aleksandrovich, Laureat Gosudarstvennoy premii;  
MEL'NIKOVA, Zh.M., red.; RAKITIN, I.I., tekhn. red.

[New mission for the electron] Novoe prizvanie elektronov. Moskva, Izd-vo "Znanie," 1963. 30 p. (Novoe v zhizni, nauke, tekhnike. IV Seriya: Tekhnika, no.23)  
(MIRA 17:2)

GLADKOV, K. A.

Jun 1947

USSR/Radio Navigation  
Radar - Development

"Modern Radio Navigation," K. A. Gladkov, 1 p

"Radio" Vol XX, No 6

The new Five-Year Plan has as one of its aims increasing freight and passenger air mileage by some 175,000 kilometers. In connection with this great development of navigation aids is required. Author mentions radar frequently, and speaks of the future when planes will be landed solely by radar control from the ground.

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GIADYOV, K. A.

Dal novidenie, [Television]. Moskva, Gos. izvo tekhniko-teoret. lit-ry, 1950.  
63 p. illus. (Nauchno-populiarnâia biblioteka).

DLC: TK663C.G57

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

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(Television)



GLADKOV, K., inzhener.

Daytime motion picture. Tekh.molod.21 no.9:17-18 S '53. (MLRA 6:11)  
(Motion picture projection)

GLADKOV, K.

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(Television)

GLADKOV, K., inshener.

Nuclear reactors. Tekh.mol. 22 no.5:23-29 My '54. (MLRA 7:6)  
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GLADKOV, K., inzhener.

The radio telescope. Tekh.mol. 22 no.12:17 D '54. (ML3A 8:1)  
(Radio astronomy)

GLADKOV, K., inzhener, laureat Stalinskoy premii

"Radioactivity." K.B.Zaborenko, Reviewed by K.Gladkov. Vest.  
Vozd.Fl. 37 no.5:73-75 My '54. (MLRA 8:8)  
(Zaboren Ko, K.B.) (Radioactivity)

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In the world of temperature and pressure. Tekh.mol.23 no.3:11-13  
Mr.'55. (MIRA 8:4)  
(Temperature) (Pressure (Physics))

GLADKOV, K. laureat Stalinskoy premii, inzhener

In the world of temperature and pressure. Tekh. mol. 23 no. 4:

6-11 Ap '55.

(MIRA 9:6)

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GLADKOV, K., inzhener, laureat Stalinskoy premii

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(Color television)



GLADKOV, K., inzhener.

The antipreten has left the first trace on a photoplate. Tekh.mel.  
24 no.4:2-5 Ap '56. (MLRA 9:7)  
(Particles, Elementary)

GLADKOV, K.

Atoms without nuclei, atoms without electrons. Tekh. mol. 25 no.3:  
9-11 Mr '57. (MIRA 10:6)

(Nuclei, Atomic)

(Atoms)

GLADKOV, K.

Photographs of atoms. Tekh. mol. 25 no.9:8-9 S '57. (MLRA 10:9)  
(Atoms)

С. ГЛАДКОВ

GLADKOV, K., inzh.

"Solar" radio receivers. Tekh. mol. 25 no.11:11 N '57. (MLRA 10:11)  
(Radio--Receivers and reception) (Transistors)

GUROV, Vadim Sergeyevich; GLADKOV, K., inzh., laureat Stalinskoy premii,  
red.; STOLYAROV, N., red.; LIL'YE, A., tekhn. red.

[Semiconductors in technology and everyday life] Poluprovodniki v  
tekhnike i v bytu. [Moskva] Mosk. rabochii, 1958. 141 p.  
(Semiconductors) (MIRA 11:9)

PHASE I BOOK EXPLOITATION

581

Gladkov, Kirill Aleksandrovich

Energiya atoma (Energy of the Atom) Moscow, Detgiz, 1958. 397 p.  
(Shkol'naya biblioteka) 115,000 copies printed.

Resp. Ed.: Leybenshteyn, G. V., and Smagin, B. I.; Tech. Eds.: Tishina, Z. V.,  
Suchkova, N. V., and Molokanova, N. A.

PURPOSE: This book is a manual for use in secondary schools.

COVERAGE: This school text book is a popular presentation of nuclear-  
and radiochemistry, nuclear physics, and nuclear technology.  
The application of atomic energy in various fields is discussed.  
Chapter 16 describes the use of new "future nuclear propulsion"  
sources in all means of transportation, including the ionic rocket.  
The book is profusely illustrated with simplified schematic drawings  
as visual aids for the juvenile reader. A list of recommended  
literature is given at the end of the book. It contains 14  
Soviet titles.

Card 1/3

AUTHOR: Gladkov, K., Engineer

29-3-26/25

TITLE: The Mystery of Ball-Lightning (Zagadka sharovoy molnii)

PERIODICAL: Tekhnika Molodezhi, 1958, Vol. 26, Nr 3, pp. 28-30 (USSR)

ABSTRACT: There are phenomena which in spite of great progress achieved in science, are still "white spots". Mankind, since its existence, continuously got in touch with one of these phenomena, viz. with ball-lightning. Since 200 years men have endeavored to disclose this phenomenon, yet it remained a mystery up till now. The occurrence of ball-lightning was frequently described in literature. Its principal properties were explicitly demonstrated by the famous French astronomer K. Flammarion. The ball-lightning has the form of a bright meteor, often with a brighter core. Its color varies from light blue to bright white, golden with a violet edge and only seldom red. Its diameter is mostly 10 to 20 cm, more rarely 10 m and more. Its flight is accompanied by a whistling, growling or hissing sound. An intense sprinkling of sparks is sometimes observed. The ball moves rather quickly - up to 2 m/sec. and remains in existence for the period of fractions of a second up to several minutes, subsequently it explodes with a violent

Card 1/3

The Mystery of Ball-Lightning

29-3-20/25

detonation and is capable of causing great damage. The behavior of the ball-lightning towards dielectrics is strange: it appears that it avoids them. Small objects are upset or displaced by it. The ball-lightning is obviously borne by the air current. Cases were observed, however, in which it moved against the air current. Peculiarities of the ball-lightning make most of the scientists doubt whether ball-lightning may be considered a lightning at all. Most various theories on its nature were enunciated during the last decades. Yet all these theories agree only in one point, viz. that the phenomenon denoted as ball-lightning, occurs in consequence of an electric discharge of immense intensity. Further the opinions of scientists diverge. Laboratory tests based upon various theories were carried out for producing a sort of ball-lightning. The results of these tests were small spherical formations resembling according to their exterior shape a miniature edition of the ball-lightning. Yet these tests were not able to disclose the mystery of this mysterious phenomenon. Further the author enunciates his own hypothesis. Concluding, he states, however, that all hypotheses, up to that date, could be neither confirmed by concrete experiments, nor by exhaustive observations. The great success achieved in the field of modern

Card 2/3



The Mystery of Ball-Lightning

29-3-20/25

experimental nuclear physics and the creation of new gigantic plants let us suppose that the centuries-old mystery of ball-lightning will be solved in the near future.  
6 eye-witness reports are published.  
There are 3 figures.

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1. Ball-lightning - Theory
2. Lightning - Theory

6(7)

SOV/29-59-6-12/24

AUTHOR: Gladkov, K.

TITLE: Compressed Sound (Pressovannyi zvuk)

PERIODICAL: Tekhnika molodezhi, 1959, Nr 6, pp 22 - 24, 26 (USSR)

ABSTRACT: In this article, the author reports on a new term, compressed sound. In the development of telecommunication, always new ways are searched to establish numerous undisturbed connections simultaneously over long distances. By the use of special high-quality cables, the so-called concentric cables, and still more complicated tubular conductors or radio relays, it is possible to make several thousand long-distance telephone calls and to transmit several television programs at the same time. The introduction of such systems is rendered difficult by the fact that they are very complicated and expensive. On the basis of electronic engineering it was possible to build speaking automatons. The first, "Vodoker", was demonstrated at the International World Exhibition in New York in 1939. By means of such machines, the processes of human language can be investigated, the changes of individual language components pursued, and experimental results reproduced in accurate ✓

Card 1/3

Compressed Sound

SOV/29-59-6-12/24

physical quantities. The technology of telephone communications is already so much advanced that all electric disturbances in the line can be avoided. No wide frequency range is therefore necessary for an undisturbed transmission of the spoken word. It would be ideal to transmit the human voice in a pure form according to its meaning only. To understand such information it is not necessary to express it by a complicated musical scheme and modulations. Scientists were faced with the task of decomposing this information into simple short signals. This is difficult as the spoken words must be recorded according to their musical sound. The apparatus of the line of communication may, however, change the sound electrically. Besides, a device should be designed which transmits one single simplified signal and reconstructs every other detail at the reception. This would take the main load off the line of communication, and entrust it to transmitting and receiving apparatuses. Such compressed signal is, however, unintelligible for the human ear, and should be recorded by a speaking automaton. The electric device of this automaton reconstructs the signal in its original form, and either reproduces it in sounds, or retransmits it to a typewriter, or even to a translating machine. On the colored

Card 2/3

Compressed Sound

SOV/29-59-6-12/24

insert, the draftsman has tried to show the working of a radio-telephone communication based on the principle of the speaking automaton "Vodoker". In spite of the primitiveness and imperfection of the first apparatus, it was able to reconstruct the signals of the transmitted speech in a well intelligible way. In fact, the natural character and modulations of the spoken word were missing. The modern speaking machines containing 100 and more sound filters can reproduce the signals compressed by 5-10 times in a much more natural and accurate way. Although it is still very difficult to build a perfect machine, it became evident that the spoken word can be transmitted by means of most simple signals. This means that a much smaller frequency range is required for transmission. The spoken word could be compressed even more if also the intervals between sentences, words and sounds were utilized. There are 5 figures. ✓